



Substitute Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark Office

Attorney's Docket No.

14004-017001

Application No.

09/438,872

**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant

Kent C. Cochrum et al.

Filing Date

November 12, 1999

Group Art Unit

1651

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>M</i>	AA	2,387,642	10/23/45	Calhoun			
	AB	3,206,361	09/14/65	Shelley et al.			
	AC	3,507,851	04/21/70	Ghetie et al.			
	AD	3,810,473	05/14/74	Cruz Jr. et al.			
	AE	3,959,079	05/25/76	Mareschi et al.			
	AF	3,959,080	05/25/76	Orth et al.			
	AG	4,137,399	01/30/79	Hülsmann et al.			
	AH	4,175,183	11/20/79	Ayers			
	AI	4,298,598	11/03/81	Schwarz et al.			
	AJ	4,362,567	12/07/82	Schwarz et al.			
	AK	4,377,572	03/22/83	Schwarz et al.			
	AL	4,405,324	09/20/83	Cruz, Jr.			
	AM	4,414,976	11/15/83	Schwarz et al.			
	AN	4,427,651	01/24/84	Stroetmann			
	AO	4,543,410	09/24/85	Cruz, Jr.			
	AP	4,549,653	10/29/85	Lauritzen			
	AQ	4,554,156	11/19/85	Fischer et al.			
	AR	4,556,056	12/03/85	Fischer et al.			
	AS	4,599,209	07/08/86	Dautzenberg et al.			
	AT	4,616,644	10/14/86	Saferstein et al.			
	AU	4,617,326	10/14/86	Björnberg et al.			
	AV	4,626,253	12/02/86	Broadnax, Jr.			
	AW	4,640,778	02/03/87	Blomback et al.			
	AX	4,665,164	05/12/87	Pernemalm et al.			
	AY	4,696,286	09/29/87	Cochrum			
	AZ	4,738,849	04/19/88	Sawyer			
	AAA	4,749,689	06/07/88	Miyata et al.			

Examiner Signature

*June Mark*

Date Considered

*8/12/05*

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>14004-017001</b>	Application No. <b>09/438,872</b>
	Applicant <b>Kent C. Cochrum et al.</b>		
	Filing Date <b>November 12, 1999</b>	Group Art Unit <b>1651</b>	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>m</i>	ABB	4,777,249	10/11/88	Bridgeford			
	ACC	4,793,336	12/27/88	Wang			
	ADD	4,973,683	11/27/90	Lindgren			
	AEE	5,015,476	05/14/91	Cochrum et al.			
	AFF	5,035,893	07/30/91	Shioya et al.			
	AGG	5,059,654	10/22/91	Hou et al.			
	AHH	5,064,652	11/12/91	Bay			
	AII	5,064,950	11/12/91	Okuma et al.			
	AJJ	5,076,265	12/31/91	Wokalek			
	AKK	5,077,210	12/31/91	Eigler et al.			
	ALL	5,081,041	01/14/92	Yafuso et al.			
	AMM	5,098,417	03/24/92	Yamazaki et al.			
	ANN	5,144,016	09/01/92	Skjak-Brack et al.			
	AOO	5,185,001	02/09/93	Galanakas			
	APP	5,196,190	03/23/93	Nangia et al.			
	AQQ	5,225,047	07/06/93	Graef et al.			
	ARR	5,279,955	01/18/94	Pegg et al.			
	ASS	5,295,997	03/22/94	Vuillaume et al.			
	ATT	5,330,974	07/19/94	Pines et al.			
	AUU	5,346,485	09/13/94	Yarbrough et al.			
	AVV	5,393,304	02/28/95	Vuillaume et al.			
	AWW	5,406,671	04/18/95	Green			
	AXX	5,429,821	07/04/95	Dorian et al.			
	AYY	5,470,731	11/28/95	Cochrum			
	AZZ	5,470,576	11/28/95	Patel			
	AAAA	5,502,042	03/26/96	Gruskin et al.			
<i>✓</i>	ABBB	5,510,102	04/23/96	Cochrum			

Examiner Signature <i>Gene Marx</i>	Date Considered <i>5/12/05</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14004-017001	Application No. 09/438,872
	Applicant Kent C. Cochrum et al.		
	Filing Date November 12, 1999	Group Art Unit 1651	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>m</i>	ACCC	5,514,377	05/07/96	Cochrum et al.			
	ADDD	5,521,079	05/28/96	Dorian et al.			
	AEEE	5,531,997	07/02/96	Cochrum			
	AFFF	5,575,997	11/19/96	Leung et al.			
	AGGG	5,578,314	11/26/96	Cochrum et al.			
	AHHH	5,584,827	12/17/96	Korteweg et al.			
	AIII	5,614,204	03/25/97	Cochrum			
	AJJJ	5,624,669	04/29/97	Leung et al.			
	AKKK	5,639,467	06/17/97	Dorian et al.			
	ALLL	5,643,192	07/01/97	Hirsch et al.			
	AMMM	5,643,594	07/01/97	Dorian et al.			
	ANNN	5,643,596	07/01/97	Pruss et al.			
	AOOO	5,645,849	07/08/97	Pruss et al.			
	APPP	5,656,468	08/12/97	Dorian et al.			
	AQQQ	5,658,592	08/19/97	Tanihara et al.			
	ARRR	5,667,501	09/16/97	Fowler et al.			
	ASSS	5,679,372	10/21/97	Shimuzu et al.			
	ATTT	5,681,579	10/28/97	Freeman			
	AUUU	5,690,610	11/25/97	Ito et al.			
	AVVV	5,693,514	12/02/97	Dorian et al.			
	AWWW	5,696,101	12/09/97	Wu et al.			
	AXXX	5,733,545	03/31/98	Hood III			
	AYYY	5,739,288	04/14/98	Edwardson et al.			
	AZZZ	5,750,657	05/12/98	Edwardson et al.			
	AAAAA	5,756,464	05/26/98	Scannon et al.			
	ABBBB	5,763,410	06/09/98	Edwardson et al.			
✓	ACCCC	5,763,411	06/09/98	Edwardson et al.			

Examiner Signature <i>Gene Mark</i>	Date Considered 5/12/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>14004-017001</b>	Application No. <b>09/438,872</b>
	Applicant <b>Kent C. Cochrum et al.</b>		
	Filing Date <b>November 12, 1999</b>	Group Art Unit <b>1651</b>	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>m</i>	ADDD	5,770,194	06/23/98	Edwardson et al.			
	AEEEE	5,770,229	06/23/98	Tanihara et al.			
	AFFFF	5,773,033	06/30/98	Cochrum et al.			
	AGGGG	5,788,662	08/04/98	Antanavich et al.			
	AHHHH	5,795,570	08/18/98	Weber et al.			
	AIIII	5,795,581	08/18/98	Segalman et al.			
	AJJJJ	5,800,372	09/01/98	Bell et al.			
	AKKKK	5,804,213	09/08/98	Rolf			
	ALLLL	5,804,428	09/08/98	Edwardson et al.			
	AMMMM	5,817,381	10/06/98	Chen et al.			
	ANNNN	5,834,008	11/10/98	Greenspan et al.			
	AOOOO	5,844,087	12/01/98	Zimmerman et al.			
	APPPP	5,846,213	12/08/98	Wan			
	AQQQQ	5,855,620	01/05/99	Bishopric et al.			
	ARRRR	5,856,367	01/05/99	Barrows et al.			
	ASSSS	5,866,113	02/02/99	Hendriks et al.			
	ATTTT	5,876,742	03/02/99	Cochrum et al.			
	AUUUU	5,883,078	03/16/99	Seelich et al.			
	AVVVV	5,902,877	05/11/99	Hirai et al.			
	AWWWW	6,001,387	12/14/99	Cochrum			
	AXXXX	6,054,122	04/25/00	MacPhee et al.			
	AYYYY	6,056,970	05/02/00	Greenawalt et al.			
	AZZZZ	6,060,461	05/09/00	Drake			
	AAAAA	6,117,425	09/12/00	MacPhee et al.			
	BBBBB	6,121,508	09/19/00	Bischof et al.			
	ACCCCC	6,156,334	12/05/00	Meyer-Ingold et al.			
	ADDDDD	6,162,241	12/19/00	Coury et al.			

Examiner Signature <i>Yume Marx</i>	Date Considered <i>5/12/05</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14004-017001	Application No. 09/438,872
	Applicant Kent C. Cochrum et al.		
	Filing Date November 12, 1999	Group Art Unit 1651	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
m	AEEEEEE	6,200,595	03/13/01	Motoyashiki et al.			
	AFFFFF	6,217,894	04/17/01	Sawhney et al.			
	AGGGGG	6,261,679	07/17/01	Chen et al.			
	AHHHHH	6,280,474	08/28/01	Cassidy et al.			
	AIIIII	6,303,585	10/16/01	Spiro et al.			
	AJJJJJ	6,391,048	05/21/02	Ginn et al.			
	AKKKKK	6,447,534	09/10/02	Cragg et al.			
	ALLLLL	6,454,787	09/24/02	Maddalo et al.			
	AMMMMM	6,486,285	11/26/02	Fujita			

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
m	ANNNNN	854,715	11/23/60	Great Britain				
	AOOOOO	942,305	11/20/63	Great Britain				
	APPPPP	974,054	11/04/64	Great Britain				
	AQQQQQ	983,073	02/10/65	Great Britain				
	<del>ARRRRR</del>	<del>1,454,055</del>	<del>10/27/76</del>	<del>Great Britain</del>		<i>duplicate</i>		
m	ASSSSS	2,118,482	11/02/83	Great Britain				
	ATTTTT	2,207,865	10/1991	Great Britain				
	AUUUUU	WO 00/27327	05/18/00	PCT				
	AVVVVV	WO 00/76533	12/21/00	PCT				
	WWWW	WO 01/05370	01/25/01	PCT				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
m	AXXXXX	Flodin, "Chapter 2: The preparation of dextran gels," Dextran Gels and Their Applications in Gel Filtration, Pharmacia, Uppsala, Sweden, 1962, pp. 14-26
	AYYYYY	Flodin, <u>Dextran Gels and Their Applications in Gel Filtration</u> , Pharmacia, Uppsala, Sweden, 1962, pp. 31-32

Examiner Signature <i>Gene Hane</i>	Date Considered 5/12/05
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14004-017001	Application No. 09/438,872
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Kent C. Cochrum et al.	
		Filing Date November 12, 1999	Group Art Unit 1651

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
<i>m</i>	AZZZZZ	Sigma-Aldrich Product Catalog for DEAE Sephadex A25, 1 page

Examiner Signature <i>Gene Mann</i>	Date Considered 8/12/01
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	